



Technical Documentation: HIKvision license

Link'nX X HKV/S/0/®



Contents

1	Lice	ense HIKvision	3
	1.1	Add a license to the Link'nX gateway	3
	1.2	Prior configuration of the HIKvision device	4
		1.2.1 Configure the link HIKvision \longrightarrow Link'nX	4
		1.2.2 Activate "Notify Surveillance Center"	4
	1.3	HIKvision device declaration	5
	1.4	Creation of a HIKvision action	$\overline{7}$
	1.5	Creation of a HIKvision trigger	8
2	Am	nexes	9
	2.1	HIKvision actions	9
	2.2	HIKvision events	9



1 License HIKvision

Link'nX is capable of interacting with HIKvision equipment. By registering a HIKvision camera beforehand, it is possible to send and receive events such as the activation of a privacy mask, or the detection of movement in a predefined area. This section will discuss in detail what can be done/created by interacting with a HIKvision device.

1.1 Add a license to the Link'nX gateway

Licences can be added to your project to enhance the functionality of your Link'nX gateways.

To add a licence, go to Can'nX, then click on the "Add an extension" button in the options of the project containing the Link'nX. Then enter the key in the field and confirm.

To retrieve your key after a purchase, you need to go to the www.can-nx.shop site, to your account. A "Serial key" button allows you to display the list of keys you have purchased.

Accuell / Votre compte		
INFORMATIONS	Q ADRESSES	HISTORIQUE ET DÉTAILS DE MES COMMANDES
Avoirs	BONS DE RÉDUCTION	MES LISTES
MES ALERTES	HES ABONNEMENTS	B INFORMATION ADDITIONNELLE
CLÉS DE SÉRIE		
	5 A	

	PRODUIT CANNX SERVICE CANN) À PROPOS FORUM	K AUTRES MARQUES MANUELS CONI	VEXION AU CLOUD S'INSCRIRE
Accueil / Compte / Cléc	le série		Q Rechercher
Affichage 10 v er	registrements par page	Recherch	er
Réf de commande	Nom du produit	Clés de série	État de la clé
MCPVUYJOP	Licence pour 10 notifications supplémentaires - Kloud\'nX	ffa99233b138df60e9a270248b7529	Activée
Afficher la page 1 de 1			Précédent 1 Suivant
Red	cevez nos offres spéciales	Votre adresse e-mail	S'ABONNER
		Vous pouvez vous désinscrire à tout moment. Vous trouve informations de contact dans les conditions d'utilisation c	erez pour cela nos lu site.



1.2 Prior configuration of the HIKvision device

In Link'nX operation, events are retrieved by receiving an HTTP request sent from the HIKvision camera. The camera needs to know when and how to communicate with the Link'nX gateway.

To do this, access the HIK vision camera interface by entering its IP address in the browser URL, then connect.

$1.2.1 \quad \text{Configure the link HIKvision} \longrightarrow \text{Link'nX}$

This step enables the HIKvision camera to send events (facial recognition, motion detection, entry into an area, etc.) to Link'nX.

In settings, you'll find the page where you can configure the HTTP data transmission parameters, as shown below.

HIK	VISION®	Live	View	Configur	ation	Smart I	Display								*
	System	SN	IMP FTF	Email	Platforr	m Access	HTTPS	QoS	802.1x	Integration P	rotocol	Network Servic	e Smooth St	reaming	Alarm Server
Ð	Network Basic Settings		HTTP Dat	a Transmissi	ion								Default		
	Advanced Settings		Destinat	ion IP or Host	Name			URL		Protoc	col	Port	Test		
<u>Q</u> .	Video/Audio			0.0.0.0				/hik /		нтт	P	4000 80	Test		
1	Image			0.0.0.0				1		HTTE	P	80	Test		
圁	Event														
H	Storage		E	Sava											
~	Counting			J Save											
E	Face Capture														
\oplus	Comparison and Modeling														
5	Face Picture Library														

Figure 1: Transferring information about Link'nX to the HIKvision camera

- Set the IP address of your Link'nX
- Specify the url as : "/hik"
- Choose the "HTTP" protocol
- Set the port to "4000"

Notes : Depending on your camera model, the path to access the configuration interface may be different.

 \triangle We strongly recommend that you use a fixed IP address for your camera and Link'nX. In the event of a power cut, for example, the devices will not change IP address and the configuration will remain functional.

1.2.2 Activate "Notify Surveillance Center"

The HIkvision camera will only send information about an event that has just occurred if a certain option is activated. This "Notify Surveillance Center" option is mandatory and is generally found in the list of events supported by the camera. For each event, go to the "Linkage method" tab and tick the "Notify Surveillance center" box.

For facial recognition, this option can be found in a different page from other events.



HIKVISION®	Live View Configuration	Smart Display				
System	Motion Detection Video Tampering	g Alarm Input Alarm Output	Exception Video Quality Diagnosis	Vit		
Network Image: Enable Motion Detection Video/Audio Enable Dynamic Analysis for Motion						
Image	Area Settings Arming Schedul	e Linkage Method	✓ Trigger Recording			
Basic Event	Send Email	_ A->1	✓ A1			
Storage	 Notify Surveillance Center Upload to FTP/Memory Card/ 					
Counting						
Comparison and Modeling						
Face Picture Library						

Figure 2: Enable events to be sent to the surveillance center (Link'nX)

1.3 HIKvision device declaration

The declaration of a HIK device is made on the page dedicated to HIK. To access this page, the user must open the navigation menu and click on the Hikvision option, which is slightly detached from the main Link'nX group.



Name * HIKvision Office	×
*Required	16/
IP address * 192.168.1.1	×
*Required	
Username * Username	×
*Required	
Password *	ĕ
*Required	

Figure 3: Declaration form for HIKvision equipment

- 1. HIK vision device name.
- 2. IP address of the HIK vision camera.
- 3. Authentication fields enabling Link'nX to send commands to the HIKvision camera.
- 4. Save Register the HIKvision device.



1.4 Creation of a HIKvision action

•	Action creation	
1	Select an action type HIK	Ŧ
2-	Name * Name of the HIKvision action	×
<u> </u>	*Required	28/64
3	Hikvision devices * HIKvision Office	Ŧ
<u> </u>	*Required	
4	Action * Enable privacy mask	Ŧ
	*Required	



Figure 4: HIKvision action form

- 1. Type of action (Select HIK for a HIK action).
- 2. Name of action.
- 3. HIK device on which the user wants to interact (send commands).
- 4. Action to be taken. The user chooses the action from the list (Activate privacy mask, deactivate mask).
- 5. Save Register the HIK action.



1.5 Creation of a HIKvision trigger

	Trigger creation	
1	Select a trigger type HIK	•
2	Name * Name of the HIkvision trigger	×
_	*Required	29 / 64
3	Hikvision device(s) * HIKvision Office	•
	*Required	
4	Event * Face recognition	•
	*Required	
5	Name Valentin	
	Minimum recognition rate: 70%	6-8

Figure 5: HIKvision trigger form

- 1. Trigger type (Select HIK for a HIK trigger).
- 2. Trigger name.
- 3. HIK device on which the user wishes to interact (retrieve events).
- 4. HIK event to be monitored by Link'nX. If the selected event occurs in the HIK (e.g. facial recognition), the trigger will be activated. The list of available events is detailed in the Appendix.
- 5. Optional parameter(s) for the selected event (4). These parameters act as conditions to be met before the trigger is activated.

If no parameter is specified, the trigger will be activated each time the selected event is received (4).

If one or more parameters are specified, the event will have to validate all of them for the trigger



to be effective (e.g. The recognised face corresponds to the individual named "X" in the database and the similarity must exceed **%). The list of available events and their parameters is detailed in Annexes.

6. Save - Register the HIK trigger.

2 Annexes

2.1 HIKvision actions

Activate privacy mask

Activates the privacy mask for the selected camera. The privacy mask must have been set up in the camera configuration interface.

Parameter name	Expected value	Description
-	-	-

Disable privacy mask

Deactivates the privacy mask for the selected camera.

Parameter name	Expected value	Description
-	-	-

2.2 HIKvision events

Intrusion detection

Signals the detection of people and vehicles entering a predefined virtual region.

Parameter name	Expected value	Description		
Region ID/number	Whole number	Code/Identifier corresponding to the number of the		
		region that carried out the detection		
Type of target to be detected	[Human] [Vehicle]	Specify the type of target to be detected, which can be a human or a vehicle.		
		If you leave this field empty, any type of target will be accepted.		

Motion detection

Signals the detection of movement in a predefined virtual region.

Parameter name	Expected value	Description
-	-	-

Line crossing detectionClick to apply

Signals the detection of people and vehicles crossing a predefined virtual line.

Parameter name	Expected value	Description
Region ID/number	Whole number	Code/Identifier corresponding to the number of the
		region where the line was crossed.
Type of target to be detected	[Human] [Vehicle]	Specify the type of target to be detected, which can be a human or a vehicle.
		If you leave this field empty, any type of target will be accepted.



Region entrance detection

Signals the detection of people and vehicles entering a predefined virtual region from the outside

Parameter name	Expected value	Description
Region ID/number	Whole number	Code/Identifier corresponding to the number of the
		region to be entered
Type of target to be detected	[Human] [Vehicle]	Specify the type of target to be detected, which can be a human or a vehicle.
		If you leave this field empty, any type of target will be accepted.

exiting detection

Signals the detection of people and vehicles leaving a predefined virtual region, from inside the area.

Parameter name	Expected value	Description
Region ID/number	Whole number	Code/Identifier corresponding to the number of the
		region to be left
Type of target to be detected	[Human] [Vehicle]	Specify the type of target to be detected, which can be a human or a vehicle.
		If you leave this field empty, any type of target will
		be accepted.

Automatic number-plate recognition alarm

Signals the detection of a number plate

Parameter name	Expected value	Description
License plate num- ber	Character string	Number of the plate to be detected
Accessibility rule	[Human] [Vehicle]	Choose whether the vehicle detected should be whitelisted or blacklisted.
		If you leave this field empty, this rule will be ignored.
Movement direc- tion of the vehicle	[Vehicle is incoming] [Vehicule is outgoing]	Direction of vehicle movement relative to the camera.
from the camera		Can be used to ensure that the gate opens when a vehicle approaches, and closes when a vehicle drives away.

Facial recognition

Signals detection of a face



Parameter name	Expected value	Description
Name	Character string	Enter the name of the person to be detected.
		The name must be the same as the one configured in
		the camera settings
Minimum recogni-	Slider (0-100%)	Specify the minimum rate of similarity/recognition of the detected face.
		A recommended recognition rate would be from 60 to 90 A rate that is too low may accept unknown individ- uals, while a rate that is too high may not accept an individual because of inaccuracies.